8. In what time will 5 cents, at 8 per cent., give 5 cents interest ?

9. In what time will \$$3\frac{3}{5}$ at 10 per cent., give \$$3\frac{3}{5}$ interest ?

10. In what time will 1 dime, at $12\frac{1}{2}$ per cent., give 1 dime interest ?

Lesson XIII.

1. Bought a bushel of grass-seed, for \$5 and sold it for \$7 ; what was the gain per cent. ?

SOLUTION.—Since it was bought for \$5 and sold for \$7, the gain must have been \$7—\$5, which is \$2. Therefore, $\frac{2}{5}$ of the cost equals the gain. If on \$1 I gain \$$\frac{2}{5}$, on \$100 I will gain 100 times \$$\frac{2}{5}$, or \$40. Therefore, the gain is 40 per cent.

2. A book was bought for \$2, and sold for \$3 ; what was the gain per cent. ?

3. A shawl cost \$5, and was sold for \$8 ; what was the gain per cent. ?

4. A cow was bought for \$20, and sold for \$25 ; what was the gain per cent. ?

5. A merchant bought a hogshead of molasses for \$80, and sold it for \$95 ; what did he gain per cent. ?

6. A barrel of pork cost \$12, and was sold for \$11 ; what was the loss per cent. ?

7. A horse was bought for \$140, and sold for \$60 ; what was the loss per cent. ?

8. Bought an orange for 4 cents, and sold it for 6 cents ; what was the gain per cent. ?

9. Bought a melon for 15 cents, and sold it for 20 cents ; what was the gain per cent. ?

10. Bought a book for 5 dimes, and sold it for 8 dimes ; what was the gain per cent. ?

11. Bought a quantity of silk for \$120, and sold it for \$200 ; what was the gain per cent. ?

12. A boy sold melons, at the rate of 10 cents